

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2167	(166/380,381,242.1,242.6).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 12:18
S2	3	("20030122373"   "5086843"   "6467547").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 10:25
S3	25	("2712920"   "3995479"   "4526241"   "4598774"   "4834185"   "4848469"   "4909321"   "4997041"   "5000266"   "5082060"   "5086843"   "5086845"   "5472055"   "5535823"   "5551512"   "5697449"   "5794694"   "6041859"   "6053244"   "6308940").PN. OR ("6467547").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 11:26
S4	1	("5086843").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 11:27
S5	1	("6467547").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 11:27
S6	0	(166/380,381,242.1,242.6).ccls. and (projection near slop\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 13:36
S7	0	(166/380,381,242.1,242.6).ccls. and (projection\$1 near slop\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 12:18
S8	2	(166/380,381,242.1,242.6).ccls. and (projection with slop\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 12:20
S9	12	(166/380,381,242.1,242.6).ccls. and (projection with incline\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 12:29
S10	156	("166").clas. and ((projection with incline\$1) (projection with slop\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 13:30
S11	815	ratchet and (drill near (pipe string))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 16:50
S12	1	("6032734").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/12/04 13:35
S13	7	(166/380,381,242.1,242.6).ccls. and (projection and ratchet)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 13:39
S14	108	(166/380,381,242.1,242.6).ccls. and ratchet	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 16:38
S15	5	(166/380,381,242.1,242.6).ccls. and (ratchet with face)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/04 16:38
S16	142	(ratchet same (projection raised)) and (drill near (pipe string))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 07:26
S17	6496	(ratchet same (projection raised) same angle\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 07:26
S18	14	((ratchet same (projection raised) same angle\$1) and (drill near (pipe string)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 08:56
S19	7	((ratchet same projecting same angle \$1) and (drill near (pipe string)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 07:38

S20	0	(multiple adj start adj tread) and connector and (drill adj (pipe string))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 08:19
S21	6	(multiple adj start adj thread) and connector and (drill adj (pipe string))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 08:19
S22	22	("4064953"   "4611662"   "4856591"). PN. OR ("5086843").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 08:24
S24	1	((ratchet same (right near thread)) and (drill near (pipe string)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 08:57
S25	1	((connector same (right near thread)) and (drill near (pipe string)))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 10:03
S26	5	((connector same (right near thread)) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 10:06
S27	27	((coupling same (right near thread)) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 10:21
S28	49	((coupling same (square near thread)) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 10:21
S29	3	((coupling same (square near thread) same start) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 13:45
S30	35	((coupling same (start near thread)) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 10:24
S31	6	((coupling same (radial adj outlet) same fluid) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 14:02
S32	11	((coupling same (radial adj outlet)) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 14:00
S33	20	((connector connect connection) same (radial adj outlet) same fluid) and (drill drilling))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/05 14:03
S34	1237	175/320	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 09:57
S35	591	(285/3,18,242,333).ccls. and (wellbore borehole downhole oilfield subterranean (oil near well) (well near bore))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/10 09:58
S36	1122	(166/380).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/09/15 08:42
S37	6	("20030122373"   "5086843"   "6467547").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/09/15 11:16
S38	625	(166/381).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 11:21
S39	450	(166/242.1).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/09/15 13:02

S40	366	(166/242.6).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2008/09/15 13:35
S41	41	("20020027363"   "20020163192"   "20030075338"   "20030075924"   "20030107213"   "20030168858"   "20030234538"   "20040007364"   "20040017081"   "20040060706"   "20040113428"   "20040135370"   "3746091"   "4707001"   "4768275"   "4770448"   "5066052"   "5318131"   "5360240"   "5415441"   "5498035"   "5924745"   "6021850"   "6047997"   "6106024"   "6112818"   "6273634"   "6322109"   "6322110"   "6409175"   "6425444"   "6454013"   "6457532"   "6485063"   "6581980"   "6607220"   "6622797"   "RE30647").PN. OR ("6997264").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 14:51
S42	22	("4064953"   "4611662"   "4856591"). PN. OR ("5086843").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 14:56
S43	1107	(285/390).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:00
S44	0	(285/390).ccls. and ((double near screw near threads) same (make adj up adj torque))	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:01
S45	0	(285/390).ccls. and (double near screw near threads)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:01
S46	2	(285/390).ccls. and (double near start near threads)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:02
S47	13	(285/390).ccls. and (right adj hand adj thread)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:03
S48	2	(285/390).ccls. and (double adj start)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:04
S49	6	("285"/\$).ccls. and (multi-thread)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:12
S50	62	("285"/\$).ccls. and (double adj thread \$2)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:14
S51	3	("285"/\$).ccls. and (double adj thread \$2 same square)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 15:16
S52	22	(175/320).ccls. and (@PD> "20071201")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 17:27
S53	377	(411/2,3,4,5).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 09:35

S54	3	("4062203").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/16 11:02
S55	262	(464/38).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/16 11:03
S56	85	(464/38).ccls. and thread\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 11:04
S57	2281	(403/342,343,348).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 11:07
S58	1537	(403/342,343).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 11:08
S59	757	(403/348).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 12:29
S60	55	(403/340).ccls. and thread\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 13:04
S61	5	("1837639").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/18 09:04
S62	3	("3355189").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/18 09:46

S63	2	("6279962").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/18 09:47
S64	4	("2535435").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/18 09:47
S65	14	(285/390).ccls. and (thread\$2 with o-ring)	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/18 13:29
S66	15	(175/320).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:21
S67	39	(166/380).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:24
S68	26	(166/381).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:27
S69	16	(166/242.1).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:29
S70	15	(166/242.6).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:30
S71	13	(285/390).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:32
S72	2	(411/2,3,4,5).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/02 15:34
S73	3	(464/38).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/03/02 15:36

S74	6	(403/342,343,348).ccls. and (@PD> "20080901")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/02 15:37
S75	18	(166/380,381,242.1,242.6).ccls. and (connector same thread same (shear adj pin))	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/11 12:45
S77	2	("6622789").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2009/03/11 13:00
S78	24	("3179168"   "3412565"   "3746091"   "3776307"   "3948321"   "5785120"   "6012523"   "6029748"   "6098717"   "6425444"   "6478091").PN. OR ("6622789").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/11 13:00
S79	10	("166/\$).ccls. and (connector with thread with (shear adj pin))	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/11 13:07
S80	8	(285/390).ccls. and (@PD> "20090215")	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/14 16:45
S81	103	(166/380,381,242.1,242.6).ccls. and (@PD> "20090215")	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/14 16:47
S82	6	(411/2,3,4,5).ccls. and (@PD> "20090215")	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/14 16:57
S83	0	(464/38).ccls. and (@PD> "20090215")	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/14 16:58
S84	10	(403/342,343,348).ccls. and (@PD> "20090215")	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/14 16:58
S85	15	(175/320).ccls. and (@PD> "20090215")	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/14 17:00

### EAST Search History (I nterference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((drilling adj liner) and raised and projection and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:07
L2	0	((running adj tool) and raised and projection and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:07
L3	0	(drilling and (radial adj port) and raised and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:08
L4	0	(drilling and (radial adj port) and projection and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:08
L5	5	(drilling and port and projection and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:09
L6	5	(drilling and port and angled and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:10
L7	0	(drilling and liner and raised and projection and thread).clm.	USPAT; UPAD	OR	ON	2009/09/15 17:10

**9/ 15/ 2009 5:11:12 PM**

**C:\ Documents and Settings\ sandrish\ My Documents\ EAST\ Workspaces\ 10574586.wsp**